Fall 2021



Our Mission

To develop and evaluate interventions and implementation strategies to improve health care delivery. Veteran engagement in health care, and Veterans' health and functioning in their communities

Director: Steven Fu, MD, MSCE Deputy Director: Nina Sayer, PhD LP

Associate Director: Brent Taylor, PhD



CCDOR Highlights

- Hildi Hagedorn earned the HSR&D Health System Impact Award for her work to increase the implementation of evidence-based treatments for Veterans with substance use disorders.
- Anne Melzer and Timothy Wilt had an editorial on lung cancer screening published in JAMA Network Open and featured on CNN.
- Agnes Jensen was a recipient of the 2021 Civil Servant of the Year award which recognizes select individuals from all Federal agencies in Minnesota for their superior performance and dedicated Federal service.



Hildi Hagedorn, PhD (Credit: April Eilers Minneapolis VA Public Affairs)

- Orly Vardeny and her team published their paper on the effectiveness of higher influenza vaccine dose on all-cause death and hospitalization among patients with cardiovascular disease in JAMA.
- Michele Spoont was invited to assist the VA Office of Mental Health and Suicide Prevention (OMHSP) with co-authoring the VA response to a Congressional Tracking Report regarding cultural competence training for VA mental heath providers, whether minority Veterans receive quality and culturally appropriate mental health care, and recommendations on how to address the unique mental health needs of minority veterans and any disparities in care they receive.
- Erin Krebs was invited to serve on the Scientific Advisory Council established by FORE (Foundation for Opioid Response Efforts) that will provide guidance to advance initiatives addressing the nationwide opioid crisis.
- Allison Gustavson was awarded the Dorothy Briggs Memorial Scientific Inquiry Award which recognizes authors whose work have made measurable contribution to the knowledge base of physical therapy.
- CCDOR alumni have been featured in the media for their impactful work. Rachel Hardeman and the University of Minnesota received a \$5 million donation from Blue Cross and Blue Shield of Minnesota to fund the Center for Antiracism Research for Health Equity which is committed to ending the impact of structural racism on health and healthcare. Melvin Donaldson was featured on Iowa Public Radio about his experience as an emergency physician during the pandemic. You can read more here.

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Calendar

Implementation Science Journal Club—4th Tuesday of every month

Medicine Grand Rounds

Erin Krebs—Oct 8 Wendy Miller—Nov 5 Timothy Wilt—Nov 12 Howard Fink—Dec 10 Susan Diem—Mar 4 Kris Ensrud—Apr 1 Elizabeth Goldsmith—May 6 Elisheva Danan—Jun 3

Medicine Journal Club

Anne Melzer—Sep 30 Elizabeth Goldsmith—Oct 7 Allison Gustavson—Oct 28 Kris Ensrud—Nov 4 Dmitri Drekonja—Nov 18 Wendy Miller—Dec 2 Elisheva Danan—Jan 6 Maureen Murdoch—Feb 3 Timothy Wilt—Mar 3 Nina Sayer—Mar 17 Steven Fu—Apr 7 Orly Vardeny Ni—May 5 Wei (Denise) Duan-Porter—Jun 2 Arianne Baldomero—Jun 23

CCDOR Research Conference

Anne Melzer—Oct 14 Veterans Day—Nov 11 Melissa Polusny—Dec 9

COACH: COUPLES FACING PTSD TOGETHER

Therapies for PTSD have been criticized for a narrow family member across four VA medical centers and

focus on symptom gains over goals that may be more found that Veterans were more than twice as likely to meaningful to veterans, such as greater quality of life, complete EBPs when loved ones encouraged them to interpersonal connections, and social functioning. For confront distress and that veterans experienced greater Project HomeFront, **Dr. Laura Meis** and her team sur- treatment gains when they shared more with their loved veyed 598 Veterans initiating EBPs for PTSD and a ones about their treatment. A couples-based, exposure



COACH: COUPLES FACING PTSD TOGETHER cont'd

every session of PE could provide the opportunity to mo- study approach (screening, recruitment, and assessment bilize the whole household in the service of EBP engage- process); and 3) explore the preliminary effects of the ment, while extending the goals of therapy beyond symp- intervention on select outcomes including overall functom reduction to family functioning. COACH aims to im-tioning, mental health functioning, social functioning, prove the degree to which PTSD treatment influences family functioning, and potential mechanisms (social conthese patient-centered outcomes. Specifically, Dr. Meis trol, subjective norms, and the degree to which veterans and her team will complete stages 1A and 1B of the rely on their partners for support). COACH could serve Stage Model of Treatment Development: 1) expand the as a first step in a series of studies that feed the evolutreatment outline using content experts and feedback tion of one-on-one, symptom-focused PTSD therapies from key stakeholders (Veterans, intimate partners, pro- into family-based interventions designed to lift the whole viders, and VA mental health leadership); 2) conduct a household, contributing to a broader evolution towards pilot open trial to assess a) acceptability of treatment evidence-based, family-inclusive care focused on outcomponents, structure, and materials, b) feasibility of the comes with meaning to Veterans.

therapy for PTSD that integrates intimate partners into intervention (retention and intervention fidelity), and c)

CCDOR Fellow & Investigators Awarded Career Development Grants

Dr. Allison Gustavson, physical therapist and an and family caregiver perspectives of telerehabilitation, pairment," which is expected to begin October 2021.

own home. For some, delivering this care at home vs. to identify future implementation strategies. the standard practice of discharge to a nursing home for ment and caregiver network of a person with dementia.

Lapsley that was designed to qualitatively explore Veter- for the pilot. Veterans were collectively enthusiastic

CCDOR Fellow, was recently awarded funding through 14 Veterans receiving care through the VHA were interthe University of Minnesota's Learning Health System viewed. Dr. Gustavson and the team found that older Mentored Career Development Program (MN-LHS) Veterans were open to using telerehabilitation with carewhich is a K12 scholar training program that trains em- giver assistance and believed it is a method to engage bedded researchers to systematically generate, apply, socially and reach their full functional potential. The proand translate evidence quickly within health systems to posed K12 study will establish foundational evidence for improve personalization, quality, equity, and outcomes of home-based models of care for persons with dementia care and reduce waste in the health care system. The adapted for telerehabilitation following hospitalization. MN-LHS will support her study titled, "Implementing Tele- Specifically, Dr. Gustavson and her team aim to systemhealth to Enhance Access to Quality Rehabilitation Fol- atically adapt an exercise model of care for persons with lowing a Hospitalization for Veterans with Cognitive Im- dementia to telerehabilitation for persons with dementia following hospitalization through developmental evalua-Veterans are a growing population at greater risk for tion (Aim1), pilot testing (Aim 2) and stakeholder engagedementia due to their military experience and exposures, ment (Aim 3). Aim 1 will be a developmental evaluation thus placing increased demand on VHA to provide high via qualitative interviews (N=30) across impacted groups. quality care. The provision of high-quality care is compli- Aim 2 pilots the model on 10 Veterans with dementia folcated by this population's greater risk for hospitalization lowing hospitalization to evaluate feasibility, acceptabiland complex care transitions. Timely access to physical ity, and preliminary effectiveness in improving physical therapy addresses hospital-induced declines in function function. Aim 3 will use three stakeholder panels that threaten a Veteran's ability to remain in his or her (Veterans/caregivers, providers, health system leaders)

Dr. Gustavson also worked closely with advisor and physical therapy, can minimize disruption to the environ- CCDOR investigator, Dr. Laura Meis, on a Community Engagement Studio of Veterans to gain input on the pro-In a pilot study with co-mentor Dr. Jennifer Stevens- posed K12 including how to refine recruitment strategies



CCDOR Fellow & Investigators Awarded CD Grants cont'd

about the proposed project and saw it as an important comfort with gynecologic exams. They were also twice area of research that would reach rural Veterans and as likely to report delaying a gynecologic exam due to allow fellow Veterans to recover at home following a hos- distress. Ongoing work will help the team to develop a pitalization. As with the qualitative results, the Veteran from the Studio highlighted the importance of involving the caregiver which the study will do. Study results will inform next steps including an implementation manual, factors related to sustainability, and ongoing stakeholder engagement efforts during the next implementation/ effectiveness trial of the adapted telerehabilitation model.

investigator, was also awarded an MN-LHS K12. Her ducting clinical or translational research. K12 is titled, "Patient-centered primary and preventive tion in VA.

VA and perspectives on self-collected testing. Study 1 these outcomes. combines responses to a multisite survey of women Veterans across 12 VAs in 9 states with medical record data rural and urban veterans using the VA electronic health to evaluate Pap test completion. Study 2 is a retrospec- record (EHR). They will also assess institutional barriers tive cohort of a nationally representative sample of wom- to implementation of evidence-based COPD manageen Veterans that will describe concordance with cervical ment among rural veterans to inform development of fucancer screening guidelines in VA. Study 3 involves ture interventions to improve rural COPD outcomes. The qualitative interviews with patients and health system team is currently analyzing the quantitative data and stakeholders at the Minneapolis VA.

other women to report high anxiety, distress, and dis- but also those who reside in urban areas.

pilot study for self-collected cervical cancer screening in VA and eventually improve women Veterans' screening experiences in VA.

Dr. Arianne Baldomero is a staff pulmonologist and CCDOR affiliate. She was awarded support through the University of Minnesota Clinical and Translational Science Institute (CTSI) KL2 Scholars Career Development Dr. Elisheva Danan, general internist and CCDOR Program which is available to Assistant Professors con-

Dr. Baldomero's KL2, "Disparities in Rural vs. Urban healthcare for female Veterans who have experienced Chronic Obstructive Pulmonary Disease (COPD) Mansexual trauma." Sexual assault affects 1 in 3 U.S. wom- agement," aims to identify the underlying reasons for disen and has lifelong consequences for women's health parities in COPD management among patients receiving that can include a more than two-fold cervical cancer care in rural vs. urban settings. COPD, the 4th leading risk. Pap testing dramatically decreases cervical cancer cause of death in the U.S., disproportionately affects rurates, but women who have experienced sexual assault ral communities. Rural counties have higher COPD prevface barriers to testing. A quarter of women in the VA alence (8.2% vs. 4.7%) and more COPD-related hospireport military sexual trauma, which may affect their care. talizations (14 vs. 11 per 1,000) and deaths (55 vs. 32 A promising new approach to cervical cancer screening per 100,000) than urban counties. Veterans represent an would use a self-collected vaginal swab in place of a pel- important population since they are twice as likely to sufvic exam. This research is the groundwork for imple- fer from COPD compared to the general U.S. population menting self-collected testing as a patient-centered op- and >30% of all veterans who rely on the Department of Veterans Affairs (VA) for health care reside in rural are-LHS research is patient-engaged and strives to create as. Although studies have identified rural disparities in sustainable improvements in healthcare delivery. Dr. COPD outcomes, specifically hospitalizations and mor-Danan is conducting three studies to better understand tality, the <u>reasons</u> for poor outcomes represent a critical women's experiences with cervical cancer screening in knowledge gap that must be filled in order to improve

The team will compare COPD management among have begun conducting provider interviews. Preliminary Dr. Danan and her team have found that nearly 60% of quantitative results suggest drive times to care, specifiwomen Veterans who use VA care have experienced cally drive time to closest specialty care clinic, indesexual assault in their lifetimes, and that women who pendently impacts health care services delivery among have been assaulted were more than twice as likely as veterans with COPD who reside not only in rural areas,



EPOCH Study—5 Years Later

Evaluating Prescription Opioid Changes in Veterans (EPOCH) is a national longitudinal prospective cohort study funded by VA HSR&D (IIR 14-295, IIR 19-083; PI **Erin Krebs**). The main objective of EPOCH is to understand effects of changes in opioid prescribing practice (especially opioid dose reduction and discontinuation) on Veterans treated with opioid therapy for chronic pain.

The first EPOCH survey was launched in 2016, shortly before Centers for Disease Control and Prevention (CDC) and VA/Department of Defense changed opioid prescribing guidelines, prompting clinicians to initiate opioid tapering to lower doses or discontinuation for patients on long-term opioid therapy.

EPOCH survey cohort participants are a nationally representative sample of VA patients treated with prescribed opioid analgesics for at least 6 months prior to a 2016 invitation date. A two-stage stratified sampling design was used to identify a representative sample of patients who were invited to participate in a mixed-mode (mail and telephone) survey with annual follow-up. Of 14,160 patients originally invited, 9253 (65.3%) completed a baseline questionnaire and were enrolled as participants in the survey cohort. Follow-up response rates have remained fairly strong over time: 7429 (81.9% of eligible) participants at year 1, 6632 (76.7% of eligible) partici-

pants at year 2, and 5471 (75.1% of eligible) participants at year 3. Currently, we are cleaning 4-year follow-up survey data and midway through data collection for the 5 -year follow-up survey wave.

In 2019, the EPOCH research team expanded to include a Veteran Engagement Panel (VEP) of 8 Veterans who have personal experience with chronic pain. The VEP has contributed to development and refinement of follow-up survey questions and development of a supplemental research proposal examining COVID-19 effects on participants. The VEP also collaborated on a research progress update newsletter, which is being mailed to participants prior to the 5-year survey wave.

EPOCH has served as a resource for research trainees and cross-COIN collaboration. For example, Dr. Elizabeth Goldsmith (current CCDOR investigator, former HSR&D fellow) used EPOCH data for her epidemiology dissertation and for a published fellowship project. Dr. Joseph Frank (Denver COIN investigator) embedded an additional telephone survey of experiences related to opioid tapering between the year 1 & 2 follow-up surveys for his HSR&D CDA-2. In coming years, the team anticipates multiple research products and additional collaborations with investigators, especially trainees and fellows, interested in analyzing this rich dataset.

Minneapolis VA Evidence-Synthesis Program

Drs. Timothy Wilt and Wei (Denise) Duan-Porter have led the Minneapolis VA ESP Program through another productive year. The team has led several reviews that have led to publications or are in progress. The reviews covered critical topics including impacts from the COVID-19 pandemic and suicide prevention.

- Risk and Protective Factors Across Socioecological Levels of Risk for Suicide (Ullman et al., 2020)
- COVID-19: Intensive Care Unit Length of Stay and Ventilation Days (Rapid Response; Duan-Porter et al., 2020)
- COVID-19: Remdesivir for Hospitalized Adults—A Living Review (Wilt et al., 2020)
- COVID-19 Post-acute Care Major Organ Damage: A Living Rapid Review (Greer et al., 2020)
- Care Coordination Models and Tools: A Systematic Review and Key Informant Interviews (Duan-Porter W, Ullman K, Majeski B, Miake-Lye I, Diem S, and Wilt TJ. Care Coordination Models and Tools—Systematic Re-

- view and Key Informant Interviews. Accepted for publication September 2021. JGIM.
- The Effect of Medical Scribes in Cardiology, Orthopedic and Emergency Departments: A Systematic Review (Ullman, K., McKenzie, L., Bart, B., Park, G., MacDonald, R., Linskens, E., & Wilt, T. J. (2021). The Effect of Medical Scribes in Emergency Departments: A Systematic Review. The Journal of Emergency Medicine)
- Evidence Review: Population and Community-Based Interventions to Prevent Suicide (Gustavson AM & Linskens EJ, Sayer NA, Venables N, MacDonald R, McKenzie L, Ullman KE, Wilt TJ, Sultan S. The intersection of implementation science and community-based suicide prevention research: opportunities to advance the field. Accepted for publication April 2021. Journal of Affective Disorders)
- Psychotherapies for Chronic Pain (Goldsmith & Koffel et al., in progress)
- Staffing in Nursing Homes (Jutkowitz & Landsteiner et al., in progress)
- Diabetic Foot Risk (Kaka et al., in progress)



Select CCDOR Publications

Desai AS, Farkouh ME, Hegde SM, Her-Mackey D, **Fink HA**, **Diem SJ**, **Duan-** C, Kuskowski M, Johnson JR. Effect of nandez AF, McGeer A, Talbot HK, **Porter W**, Cawthon PM, Schousboe JT, 7 vs 14 days of antibiotic therapy on Anand I. Effect of high-dose trivalent vs Ensrud KE. Life-space mobility and resolution of symptoms among afebrile standard-dose guadrivalent influenza healthcare costs and utilization in older men with urinary tract infection: A ranvaccine on mortality or cardiopulmonary men. Journal of the American Geriatrics domized clinical trial. JAMA. 2021 Jul hospitalization in patients with high-risk Society. 2021 May 7. cardiovascular disease: A randomized clinical trial. JAMA. 2021 Jan 5;325 **Gustavson AM**, Wisdom JP, **Kenny Koffel E**, **Hagedorn H**. Provider per-(1):39-49. **ME**, **Salameh HA**, **Ackland PE**, **Clothi**- spectives of implementation of an evi-

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CCDOR was founded in 1998 and is currently comprised of 30 Core Investigators (includes clinically-active physicians, biostatisticians, epidemiologists, behavioral scientists, and clinical psychologists), 8 Affiliate Investigators, 10 fellows, and 100 Research and Administrative Support Staff. It supports over 60 funded studies and several research training programs for post-doctoral level Investigators.

Center of Innovation

In 2013, CCDOR became a VA Center of Innovation (COIN) and was refunded in 2018. The COIN program rewards research innovations and partnerships to ensure that research has the greatest possible impact on VHA policies, healthcare practices, and health outcomes for Veterans. COINs emphasize detailed strategic planning and collaboration in one or more focused areas of research, partnerships with VA clinical and/or operations leaders, and accelerated movement toward implementation and impact.

CCDOR's Research Priorities

- Trauma Recovery
- Chronic Pain and Opioid Harms Reduction

CCDOR's Cores

- Administrative Core
- Evidence Synthesis Core
- Implementation Core
- Mentoring and Training Core
- Statistics and Data Management Core
- Veteran Engagement Core

Operational Partners

- National Center for Health Promotion and Disease Prevention (NCP)
- National Center for PTSD
- Office of Mental Health and Suicide Prevention
- VA Midwest Health Care Network, VISN 23
- VA Primary Care Program Office
- VHA Pain Management (Program Office)

For more information

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U.S. Department of Veterans Affairs

Veterans Health Administration